IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

 (Currently Amended) A transmitting apparatus for providing digital content, comprising:

meta information storing means for storing meta information about content data that is transmitted;

identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data;

meta information schema storing means for storing a meta information schema that defines the data structure of meta information about the content data according to the content data that is transmitted[[;]].

wherein the meta information schema is periodically updated to effectively add, delete, and transmit the meta information and to improve a searching efficiency of the meta information;

inference rule storing means for storing an inference rule defined by the data structure of meta information about the content data that is transmitted; and

transmitting means for transmitting the meta information, the meta information schema, the inference rule, and the content data through a transmission path when the inference rule and the meta information schema are not stored in a receiving apparatus, and transmitting only the meta information and the content data when the inference rule and the meta information schema are stored in the receiving apparatus,

wherein the meta information schema includes the identifier data and attribute names of the content.

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content;

wherein use history information of meta information is periodically received from the receiving apparatus;

wherein attributes, whose applied frequencies are low as indicated by the use history information are deleted from said meta information schema[[.]];

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments.

 (Currently Amended) A transmitting apparatus for providing digital content, comprising:

meta information storing means for storing meta information about content data that is transmitted;

identifier data storing means for storing identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data;

meta information schema storing means for storing a meta information schema that defines the data structure of meta information about the content data according to the content data that is transmitted:

transmitting means for transmitting the meta information, the meta information schema, and the content data through a transmission path when an inference rule and the meta information schema are not stored in a receiving apparatus, and transmitting only the meta information and the content data when the inference rule and the meta information schema are stored in the receiving apparatus:

communication controlling means for communicating with a receiving apparatus;

changing means for changing the structure of the meta information schema that
has been stored in said meta information schema storing means and the meta information that has
been stored in said meta information storing means corresponding to content data that has been
received through said communication controlling means,

wherein the meta information schema includes the identifier data and attribute names of the content.

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content;

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments;

wherein said communication controlling means periodically receives use history information of meta information from the receiving apparatus; and

wherein said changing means deletes, from the meta information schema, attributes whose applied frequencies are low as indicated by the use history information. Reply to Non-Final Office Action dated June 4, 2007

(Currently Amended) A transmitting apparatus for providing digital

content, comprising:

meta information storing means for storing meta information about content data

that is transmitted;

identifier data storing means for storing identifier data associated with a particular

portion of the content data that is adapted to distinguish a segment of content data;

meta information schema storing means for storing a meta information schema

that defines the data structure of meta information about the content data according to the content

data that is transmitted;

inference rule storing means for storing an inference rule defined by the data

structure of meta information about the content data that is transmitted;

transmitting means for transmitting the meta information, the inference rule, and

the content data through a transmission path when the inference rule is not stored in a receiving

apparatus, and transmitting only the meta information and the content data when the inference

rule is stored in the receiving apparatus;

communication controlling means for communicating with a receiving apparatus;

and

changing means for changing the inference rule that has been stored in said

inference rule storing means corresponding to content data that has been received through said

communication controlling means.

wherein the meta information schema includes the identifier data and attribute

names of the content,

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wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content;

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments;

wherein said communication controlling means periodically receives use history information of meta information from the receiving apparatus; and

wherein said changing means deletes, from the meta information schema, attributes whose applied frequencies are low as indicated by the use history information.

 $\mbox{4.} \qquad \mbox{(Previously Presented) The transmitting apparatus as set forth in claim 1,} \\ \mbox{further comprising:}$

converting means for converting the format of the meta information into a transmission format.

- (Previously Presented) The transmitting apparatus as set forth in claim 2, wherein content data that has been received through said communication controlling apparatus is data that represents a use history of meta information of the receiving apparatus.
- (Currently Amended) A receiving apparatus for receiving data for providing digital content, comprising:

receiving means for receiving at least meta information and content data through a transmission path when an inference rule is not stored in the receiving apparatus, and receiving

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only the meta information and the content data when the inference rule is stored in the receiving

apparatus,

wherein the receiving means receives identifier data associated with a particular

portion of the content data that is adapted to distinguish a segment of content data;

meta information schema storing means for storing a meta information schema;

profile operating means for operating a selection criterion for selecting meta

information corresponding to the meta information schema;

user profile storing means for storing a user profile generated by said profile

operating means:

meta information filtering means for selecting and receiving meta information

corresponding to the user profile;

meta information storing means for storing meta information that has been

selected and received;

meta information operating means for searching and/or browsing meta

information;

inference rule storing means for storing the inference rule defined by the data

structure of meta information:

wherein the inference rule defines a rule for which an attribute value is newly

obtained from a relation between segments;

data storing means for receiving and storing data of contents represented by the

meta information that has been selected; and

a data operating portion for operating data that has been stored in said data storing

means.

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wherein the meta information schema includes the identifier data and attribute

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content;

wherein when said inference rule is applied, an applied frequency counter is incremented; and

wherein said applied frequency counter is periodically transmitted as use history information to a transmitting apparatus.

 (Currently Amended) A receiving apparatus for receiving data for providing digital content data, comprising:

receiving means for receiving at least meta information and the content data through a transmission path and receiving identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data when an inference rule is not stored in the receiving apparatus, and receiving only the meta information, the identifier data and the content data when the inference rule is stored in the receiving apparatus;

meta information schema storing means for storing a meta information schema that defines the data structure of meta information;

profile operating means for operating a selection criterion for selecting meta information corresponding to the meta information schema:

user profile storing means for storing a user profile generated by said profile operating means;

meta information filtering means for selecting and receiving meta information corresponding to the user profile;

meta information storing means for storing meta information that has been selected and received:

meta information operating means for searching and/or browsing meta information:

inference rule storing means for storing the inference rule about the data structure of meta information;

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments;

changing means for changing the structure of the meta information schema that has been stored in said meta information schema storing means and the meta information that has been stored in said meta information storing means corresponding to the user profile that has been stored in said user profile storing means and to the inference rule that has been stored in said inference rule storing means;

data storing means for receiving and storing data of contents represented by the selected meta information; and

a data operating portion for operating data that has been stored in said data storing means,

wherein the meta information schema includes the identifier data and attribute names of the content,

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content;

wherein when said inference rule is applied, an applied frequency counter is incremented; and

wherein said applied frequency counter is periodically transmitted as use history information to a transmitting apparatus.

(Original) The receiving apparatus as set forth in claim 7,

wherein said changing means changes the meta information schema that has been stored in said meta information schema storing means and the meta information that has been stored in said meta information storing means corresponding to a use history of meta information of a user.

(Original) The receiving apparatus as set forth in claim 7,

wherein said changing means changes a meta information schema and received meta information corresponding to a user's setup and stores the changed meta information schema and the changed meta information to said meta information schema storing means and said meta information storing means, respectively.

 (Currently Amended) A transmitting and receiving apparatus having a transmitting apparatus for providing digital content and a receiving apparatus for receiving digital content,

wherein the transmitting apparatus comprises:

meta information storing means for storing meta information about content data that is transmitted;

meta information schema storing means for storing a meta information schema that defines the data structure of meta information about content data according to the content data that is transmitted:

inference rule storing means for storing an inference rule defined by the data structure of meta information about content data that is transmitted; and

transmitting means for transmitting the meta information, the meta information schema, the inference rule, and content data through a transmission path when the inference rule and the meta information schema are not stored in a receiving apparatus, and transmitting only the meta information and the content data when the inference rule and the meta information schema are stored in the receiving apparatus.

wherein use history information of meta information is periodically received from the receiving apparatus;

wherein attributes, whose applied frequencies are low as indicated by the use history information are deleted from said meta information schema; and

wherein the receiving apparatus comprises:

receiving means for receiving the meta information, the meta information schema, the inference rule, identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data, and content data through a transmission path when the inference rule and the meta information schema are not stored in the receiving apparatus, and receiving only the meta information, the identifier data and the content data when the inference rule and the meta information schema are stored in the receiving apparatus:

meta information schema storing means for storing the received meta information

schema;

profile operating means for operating a selection criterion for selecting meta information corresponding to the meta information schema:

user profile storing means for storing a user profile generated by said profile operating means;

meta information filtering means for selecting and receiving meta information corresponding to the user profile;

meta information storing means for storing the meta information that has been selected and received;

meta information operating means for searching and/or browsing meta information:

inference rule storing means for storing the inference rule that has been received;

data storing means for receiving and storing data of content that is represented by
the selected meta information; and

a data operating portion for operating data that has been stored in said data storing means;

wherein the meta information schema includes the identifier data and attribute names of the content,

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content;

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments;

wherein when said inference rule is applied, an applied frequency counter is incremented; and

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wherein said applied frequency counter is periodically transmitted as the use

history information to said transmitting apparatus.

11. (Currently Amended) A transmitting and receiving apparatus having a

transmitting apparatus for providing digital content and a receiving apparatus for receiving

digital content,

wherein the transmitting apparatus comprises:

meta information storing means for storing meta information about content data

that is transmitted:

meta information schema storing means for storing a meta information schema

that defines the data structure of meta information about content data according to the content

data that is transmitted;

transmitting means for transmitting the meta information, the meta information

schema, and content data through a transmission path when an inference rule and the meta

information schema are not stored in the receiving apparatus, and transmitting only the meta

information and the content data when the inference rule and the meta information schema are

stored in the receiving apparatus;

communication controlling means for communicating with the receiving

apparatus; and

changing means for changing the structure of the meta information schema that

has been stored in said meta information storing means and the meta information that has been

stored in said meta information storing means corresponding to content data that has been

received through said communication controlling means,

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15 of 35 00475903 wherein said communication controlling means periodically receives use history information of meta information from the receiving apparatus; and

wherein said changing means deletes, from the meta information schema,
attributes whose applied frequencies are low as indicated by the use history information; and
wherein the receiving apparatus comprises:

receiving means for receiving the meta information, the meta information schema, identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data, and content data through a transmission path;

meta information schema storing means for storing the meta information schema that has been received;

profile operating means for operating a selection criterion for selecting meta information corresponding to the meta information schema;

user profile storing means for storing a user profile generated by said profile operating means;

meta information filtering means for selecting and receiving meta information corresponding to the user profile;

meta information storing means for storing meta information that has been selected and received;

meta information operating means for searching and/or browsing meta information:

data storing means for receiving and storing data of content represented by the meta information that has been selected:

a data operating portion for operating data that has been stored in said data storing means; and communication controlling means for transmitting data to the transmitting apparatus.

wherein the meta information schema includes the identifier data and attribute names of the content.

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content;

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments:

wherein when said inference rule is applied, an applied frequency counter is incremented; and

wherein said applied frequency counter is periodically transmitted as the use history information to said transmitting apparatus.

 (Currently Amended) A transmitting and receiving apparatus having a transmitting apparatus for providing digital content and a receiving apparatus for receiving digital content,

wherein the transmitting apparatus comprises:

meta information storing means for storing meta information about content data according to the content data that is transmitted;

meta information storing means for storing a meta information schema that defines the data structure of meta information about content data that is transmitted;

inference rule storing means for storing an inference rule defined by the data structure of meta information about content data that is transmitted:

transmitting means for transmitting the meta information, the meta information schema, the inference rule, and content data through a transmission path when the inference rule and the meta information schema are not stored in the receiving apparatus, and transmitting only the meta information and the content data when the inference rule and the meta information schema are stored in the receiving apparatus:

communication controlling means for communicating with the receiving apparatus; and

changing means for changing the inference rule that has been stored in said inference rule storing means corresponding to content data that has been received through said communication controlling means.

wherein said communication controlling means periodically receives use history information of meta information from the receiving apparatus; and

wherein said changing means deletes, from the meta information schema,
attributes whose applied frequencies are low as indicated by the use history information; and
wherein the receiving apparatus comprises:

receiving means for receiving the meta information, the meta information schema, the inference rule, identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data and content data through a transmission path;

meta information schema storing means for storing the meta information schema that has been received;

profile operating means for operating a selection criterion for selecting meta information corresponding to the meta information schema;

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user profile storing means for storing a user profile generated by said profile operating means:

meta information filtering means for selecting and receiving meta information corresponding to the user profile:

meta information storing means for storing the meta information that has been selected and received;

meta information operating means for searching and/or browsing meta information:

inference rule storing means for storing the inference rule that has been received;

data storing means for receiving and storing data of content represented by the

meta information that has been selected;

a data operating portion for operating data that has been stored in said data storing means; and

communication controlling means for transmitting content data to the transmitting apparatus,

wherein the meta information schema includes the identifier data and attribute names of the content,

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content;

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments;

wherein when said inference rule is applied, an applied frequency counter is incremented: and

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wherein said applied frequency counter is periodically transmitted as the use

history information to said transmitting apparatus.

(Currently Amended) A transmitting and receiving apparatus having a

transmitting apparatus for providing digital content and a receiving apparatus for receiving

digital content.

wherein the transmitting apparatus comprises:

meta information storing means for storing meta information about content data

according to the content data that is transmitted;

meta information schema storing means for storing a meta information schema

that defines the data structure of meta information about content data that is transmitted;

inference rule storing means for storing an inference rule about the data structure

of meta information about content data that is transmitted; and

transmitting means for transmitting the meta information, the meta information

schema, the inference rule, and content data through a transmission path when the inference rule

and the meta information schema are not stored in the receiving apparatus, and transmitting only

the meta information and the content data when the inference rule and the meta information

schema are stored in the receiving apparatus,

wherein use history information of meta information is periodically received from

the receiving apparatus;

wherein attributes, whose applied frequencies are low as indicated by the use

history information are deleted from said meta information schema; and

wherein the receiving apparatus comprises:

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receiving means for receiving the meta information, the meta information schema, the inference rule, identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data and content data through a transmission path;

meta information schema storing means for storing the meta information schema that has been received;

profile operating means for operating a selection criterion for selecting meta information corresponding to the meta information schema;

user profile storing means for storing a user profile generated by said profile operating means;

meta information filtering means for selecting and receiving meta information corresponding to the user profile;

meta information storing means for storing the meta information that has been selected and received:

meta information operating means for searching and/or browsing meta information;

inference rule storing means for storing an inference rule;

changing means for changing the structure of the meta information schema that has been stored in said meta information schema storing means and the meta information that has been stored in said meta information storing means corresponding to the user profile that has been stored in said user profile storing means and to the inference rule that has been stored in said inference rule storing means;

data storing means for receiving and storing data of contents represented by the meta information that has been selected; and

obtained from a relation between segments:

a data operating portion for operating data stored in said data storing means,

wherein the meta information schema includes the identifier data and attribute

names of the content,

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content;

wherein the inference rule defines a rule for which an attribute value is newly

wherein when said inference rule is applied, an applied frequency counter is incremented; and

wherein said applied frequency counter is periodically transmitted as the use history information to said transmitting apparatus.

 (Currently Amended) A transmitting method for providing digital content, comprising the steps of:

when meta information about content data that is transmitted,

transmitting a meta information schema that defines the data structure of the meta information, identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data and content data through a transmission path when an inference rule and the meta information schema are not stored in a receiving apparatus, and transmitting only the identifier data and the content data when the inference rule and the meta information schema are stored in the receiving apparatus,

periodically receiving use history information of meta information from the receiving apparatus;

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deleting, from the meta information schema, attributes whose applied frequencies

are low as indicated by the use history information; and

changing the structure of the meta information schema and the meta information

corresponding to data that has been received from a receiving apparatus and transmitting the

changed data.

wherein the meta information schema includes the identifier data and attribute

names of the content.

wherein the inference rule defines a rule for which an attribute value is newly

obtained from a relation between segments;

wherein the meta information includes the identifier data, the attribute names and

description data corresponding to each attribute name of the content.

(Currently Amended) A transmitting method for providing digital content, 15

comprising the steps of:

when meta information about content data that is transmitted,

transmitting a meta information schema that defines the data structure of the meta

information, an inference rule about the data structure of the meta information, and content data

through a transmission path, including identifier data associated with a particular portion of the

content data that is adapted to distinguish a segment of content data when the meta information

schema and the inference rule are not stored in a receiving apparatus, and transmitting only the

meta information, the identifier data and the content data when the inference rule and the meta

information schema are stored in the receiving apparatus,

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periodically receiving use history information of meta information from the receiving apparatus:

deleting, from the meta information schema, attributes whose applied frequencies are low as indicated by the use history information; and

changing the inference rule corresponding to content data that has been received from a receiving apparatus and transmitting the changed data,

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments;

wherein the meta information schema includes the identifier data and attribute names of the content.

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content.

16. (Previously Presented) The transmitting method as set forth in claim 14, further comprising the step of:

receiving a meta information use history from the receiving apparatus and transmitting a meta information schema, meta information, and an inference rule that have been changed so that they have respective data structures corresponding to the meta information use history.

 (Currently Amended) A receiving method for receiving data for providing digital content, comprising the steps of: Reply to Non-Final Office Action dated June 4, 2007

storing a meta information schema that defines the data structure of meta

information:

storing identifier data associated with a particular portion of the content data that

is adapted to distinguish a segment of content data;

storing at least meta information that has been selected and received when an

inference rule and meta information schema are not stored in the receiving apparatus, and storing

only the meta information and the content data when the inference rule is stored in the receiving

apparatus:

searching and/or browsing meta information;

changing the structure of the meta information schema and the meta information

that has been stored corresponding to a user profile and an inference rule:

incrementing an applied frequency counter when said inference rule is applied;

and

periodically transmitting said applied frequency counter as the use history

information to a transmitting apparatus;

wherein the meta information schema includes the identifier data and attribute

names of the content;

wherein the inference rule defines a rule for which an attribute value is newly

obtained from a relation between segments;

wherein the meta information includes the identifier data, the attribute names and

description data corresponding to each attribute name of the content.

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 (Currently Amended) A transmitting and receiving method for providing digital content and receiving digital content, comprising the steps of:

transmitting meta information about content data that is transmitted, a meta information schema that defines the data structure of the meta information, identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data, and content data through a transmission path when the meta information schema and the inference rule are not stored in a receiving apparatus, and transmitting only the meta information and the content data when the inference rule and the meta information schema are stored in the receiving apparatus;

periodically receiving use history information of meta information from the receiving apparatus from the receiving apparatus;

deleting, from the meta information schema, attributes whose applied frequencies are low as indicated by the use history information;

changing the structure of the meta information schema that is transmitted and the meta information corresponding to content data that has been received from a receiving apparatus;

storing a meta information schema that defines the data structure of the meta information that has been received on a receiving side;

storing the meta information that has been selected and received; searching and/or browsing the meta information,

incrementing an applied frequency counter when said inference rule is applied;

and

periodically transmitting said applied frequency counter as the use history information to a transmitting apparatus:

wherein the meta information schema includes the identifier data and attribute names of the content.

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments;

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content.

 (Currently Amended) A transmitting and receiving method for providing digital content and receiving digital content, comprising the steps of:

transmitting meta information about content data that is transmitted, a meta information schema that defines the data structure of the meta information, an inference rule, identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data, and content data through a transmission path when the meta information schema and the inference rule are not stored in a receiving apparatus, and transmitting only the meta information and the content data when the inference rule and the meta information schema are stored in the receiving apparatus;

periodically receiving use history information of meta information from the receiving apparatus from the receiving apparatus;

deleting, from the meta information schema, attributes whose applied frequencies are low as indicated by the use history information;

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changing the inference rule that is transmitted corresponding to data that has been received from a receiving apparatus;

storing a meta information schema that defines the data structure of the meta information that has been received on a receiving side;

storing the meta information that has been selected and received;

searching and/or browsing the meta information,

incrementing an applied frequency counter when said inference rule is applied;

and

periodically transmitting said applied frequency counter as the use history information to a transmitting apparatus;

wherein the meta information schema includes the identifier data and attribute names of the content,

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments;

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content.

 (Currently Amended) A transmitting and receiving method for providing digital content and receiving digital content, comprising the steps of:

transmitting meta information about content data, a meta information schema that defines the data structure of the meta information, an inference rule about the data structure of the meta information, identifier data associated with a particular portion of the content data that is adapted to distinguish a segment of content data, and content data through a transmission path

when the inference rule and the meta information schema are not stored in a receiving apparatus, and transmitting only the meta information and the content data when the inference rule and the meta information schema are stored in the receiving apparatus;

periodically receiving use history information of meta information from the receiving apparatus:

deleting, from the meta information schema, attributes whose applied frequencies are low as indicated by the use history information;

storing the meta information schema that defines the data structure of the meta information that has been received on a receiving side;

storing the meta information that has been selected and received;

changing the structure of the meta information schema and the meta information that has been stored corresponding to a user profile and the inference rule,

incrementing an applied frequency counter when said inference rule is applied;

periodically transmitting said applied frequency counter as the use history information to a transmitting apparatus

wherein the meta information schema includes the identifier data and attribute names of the content,

wherein the inference rule defines a rule for which an attribute value is newly obtained from a relation between segments;

wherein the meta information includes the identifier data, the attribute names and description data corresponding to each attribute name of the content.

and

21. (Previously Presented) The transmitting apparatus as set forth in claim 2, further comprising:

converting means for converting the format of the meta information into a transmission format.

22. (Previously Presented) The transmitting apparatus as set forth in claim 3, further comprising:

converting means for converting the format of the meta information into a transmission format.

- 23. (Previously Presented) The transmitting apparatus as set forth in claim 3, wherein data that has been received through said communication controlling apparatus is data that represents a use history of meta information of the receiving apparatus.
- (Previously Presented) The transmitting method as set forth in claim 15, further comprising the step of:

receiving a meta information use history from the receiving apparatus and transmitting a meta information schema, meta information, and an inference rule that have been changed so that they have respective data structures corresponding to the meta information use history.